

**Leon Willenborg    Ton de Waal**

## **Elements of Statistical Disclosure Control**



**Springer**

# Elements Of Statistical Disclosure Control

**Jörg Drechsler, Daniel Kifer, Jerome  
Reiter, Aleksandra Slavković**



## **Elements Of Statistical Disclosure Control:**

Elements of Statistical Disclosure Control Leon Willenborg, Ton De Waal, 2011-04-26      **Elements of Statistical Disclosure Control** Leon Willenborg, Ton de Waal, 2012-12-06 Statistical disclosure control is the discipline that deals with producing statistical data that are safe enough to be released to external researchers This book concentrates on the methodology of the area It deals with both microdata individual data and tabular aggregated data The book attempts to develop the theory from what can be called the paradigm of statistical confidentiality to modify unsafe data in such a way that safe enough data emerge with minimum information loss This book discusses what safe data are how information loss can be measured and how to modify the data in a near optimal way Once it has been decided how to measure safety and information loss the production of safe data from unsafe data is often a matter of solving an optimization problem Several such problems are discussed in the book and most of them turn out to be hard problems that can be solved only approximately The authors present new results that have not been published before The book is not a description of an area that is closed but on the contrary one that still has many spots awaiting to be more fully explored Some of these are indicated in the book The book will be useful for official social and medical statisticians and others who are involved in releasing personal or business data for statistical use Operations researchers may be interested in the optimization problems involved particularly for the challenges they present Leon Willenborg has worked at the Department of Statistical Methods at Statistics Netherlands since 1983 first as a researcher and since 1989 as a senior researcher Since 1989 his main field of research and consultancy has been statistical disclosure control From 1996 1998 he was the project coordinator of the EU co funded SDC project      Statistical Disclosure Control Anco Hundepool, Josep Domingo-Ferrer, Luisa Franconi, Sarah Giessing, Eric Schulte Nordholt, Keith Spicer, Peter-Paul de Wolf, 2012-07-05 A reference to answer all your statistical confidentiality questions This handbook provides technical guidance on statistical disclosure control and on how to approach the problem of balancing the need to provide users with statistical outputs and the need to protect the confidentiality of respondents Statistical disclosure control is combined with other tools such as administrative legal and IT in order to define a proper data dissemination strategy based on a risk management approach The key concepts of statistical disclosure control are presented along with the methodology and software that can be used to apply various methods of statistical disclosure control Numerous examples and guidelines are also featured to illustrate the topics covered Statistical Disclosure Control Presents a combination of both theoretical and practical solutions Introduces all the key concepts and definitions involved with statistical disclosure control Provides a high level overview of how to approach problems associated with confidentiality Provides a broad ranging review of the methods available to control disclosure Explains the subtleties of group disclosure control Features examples throughout the book along with case studies demonstrating how particular methods are used Discusses microdata magnitude and frequency tabular data and remote access issues Written by experts within leading

National Statistical Institutes Official statisticians academics and market researchers who need to be informed and make decisions on disclosure limitation will benefit from this book

**COMPSTAT** Jelke G. Bethlehem, Peter G. M. van der Heijden, 2000 This book contains the keynote invited and full contributed papers presented at COMPSTAT 2000 held in Utrecht The papers range over all aspects of the link between statistical theory and applied statistics with special attention for developments in the area of official statistics The papers have been thoroughly refereed

**Privacy in Statistical Databases** Josep Domingo-Ferrer, Emmanouil Magkos, 2010-09-14 Privacy in statistical databases is a discipline whose purpose is to provide so tionstothetensionbetweenthe social political economicandcorporatedemand for accurate information and the legal and ethical obligation to protect the p vacy of the various parties involved Those parties are the respondents the individuals and enterprises to which the database records refer the data o ers those organizations spending money in data collection and the users the ones querying the database or the search engine who would like their queries to stay con dential Beyond law and ethics there are also practical reasons for data collecting agencies and corporations to invest in respondent privacy if individual respondents feel their privacy guaranteed they are likely to provide moreaccurateresponses Data ownerprivacyis primarilymotivatedbypractical considerations if an enterprise collects data at its own expense it may wish to minimize leakage of those data to other enterprises even to those with whom joint data exploitation is planned Finally user privacy results in increaseduser satisfaction even if it may curtail the ability of the database owner to pro le users Thereareatleasttwotraditionsinstatisticaldatabaseprivacy bothofwhich started in the 1970s the rst one stems from o cial statistics where the dis pline is also known as statistical disclosure control SDC and the second one originates from computer science and database technology In o cial statistics the basic concern is respondent privacy In computer science the initial mo vation was also respondent privacy but from 2000 onwards growing attention has been devoted to owner privacy privacy preserving data mining and user privacy private informationretrieval

*Secure Data Management* Willem Jonker, Milan Petkovic, 2007-09-06 This book constitutes the refereed proceedings of the Fourth VLDB 2007 International Workshop on Secure Data Management SDM 2007 held in Vienna Austria September 23 24 2007 in conjunction with VLDB 2007 The 11 revised full papers presented were carefully reviewed and selected from 29 submissions The papers are organized in topical sections on Access Control Database Security Privacy Protection and Positon Papers

Total Survey Error in Practice Paul P. Biemer, Edith D. de Leeuw, Stephanie Eckman, Brad Edwards, Frauke Kreuter, Lars E. Lyberg, N. Clyde Tucker, Brady T. West, 2017-02-13 Featuring a timely presentation of total survey error TSE this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large scale data sets This book provides an overview of the TSE framework and current TSE research as related to survey design data collection estimation and analysis It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality The book also addresses issues with data quality in official statistics and in

social opinion and market research as these fields continue to evolve leading to larger and messier data sets This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality The volume consists of the most up to date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields The chapters are broken out into five main sections The Concept of TSE and the TSE Paradigm Implications for Survey Design Data Collection and Data Processing Applications Evaluation and Improvement and Estimation and Analysis Each chapter introduces and examines multiple error sources such as sampling error measurement error and nonresponse error which often offer the greatest risks to data quality while also encouraging readers not to lose sight of the less commonly studied error sources such as coverage error processing error and specification error The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another resulting in an estimate with larger total error This book Features various error sources and the complex relationships between them in 25 high quality chapters on the most up to date research in the field of TSE Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects Presents examples of recent international events that demonstrate the effects of data error the importance of survey data quality and the real world issues that arise from these errors Spans the four pillars of the total survey error paradigm design data collection evaluation and analysis to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science public opinion public policy and business It can also be used as a textbook or supplementary material for a graduate level course in survey research methods

*Information Security and Privacy* Joseph K. Liu, Ron Steinfeld, 2016-06-29 The two volume set LNCS 9722 and LNCS 9723 constitutes the refereed proceedings of the 21st Australasian Conference on Information Security and Privacy ACISP 2016 held in Melbourne VIC Australia in July 2016 The 52 revised full and 8 short papers presented together with 6 invited papers in this double volume were carefully revised and selected from 176 submissions The papers of Part I LNCS 9722 are organized in topical sections on National Security Infrastructure Social Network Security Bitcoin Security Statistical Privacy Network Security Smart City Security Digital Forensics Lightweight Security Secure Batch Processing Pseudo Random One Way Function Cloud Storage Security Password QR Code Security and Functional Encryption and Attribute Based Cryptosystem Part II LNCS 9723 comprises topics such as Signature and Key Management Public Key and Identity Based Encryption Searchable Encryption Broadcast Encryption Mathematical Primitives Symmetric Cipher Public Key and Identity Based Encryption Biometric Security Digital Forensics National Security Infrastructure Mobile Security Network Security and Pseudo Random One Way Function

**Methodology and Applications of Statistics** Barry C. Arnold, Narayanaswamy Balakrishnan, Carlos A. Coelho, 2022-01-04 Dedicated to one of the most outstanding researchers in the field of statistics this volume in honor of C R Rao on the occasion of his 100th birthday provides a bird s

eye view of a broad spectrum of research topics paralleling C R Rao s wide ranging research interests The book s contributors comprise a representative sample of the countless number of researchers whose careers have been influenced by C R Rao through his work or his personal aid and advice As such written by experts from more than 15 countries the book s original and review contributions address topics including statistical inference distribution theory estimation theory multivariate analysis hypothesis testing statistical modeling design and sampling shape and circular analysis and applications The book will appeal to statistics researchers theoretical and applied alike and PhD students Happy Birthday C R Rao

**Dictionary of Privacy, Data Protection and Information Security** Mark Elliot, Anna M. Mandalari, Miranda Mourby, Kieron O'Hara, 2024-07-05 This is an open access title available under the terms of a CC BY NC ND 4.0 License It is free to read download and share on Elgaronline.com The Dictionary of Privacy Data Protection and Information Security explains the complex technical terms legal concepts privacy management techniques conceptual matters and vocabulary that inform public debate about privacy

**Bioinformatics in Human Health and Heredity** Ranajit Chakraborty, C.R. Rao, Pranab K. Sen, 2012-10-03 The field of statistics not only affects all areas of scientific activity but also many other matters such as public policy A series of handbooks is the only way of presenting the various aspects of statistical methodology applications and developments This volume deals with bioinformatics

**Building on Progress** German Data Forum, 2011-02-09 This publication provides a comprehensive compendium of the current state of Germany s research infrastructure in the social economic and behavioural sciences In addition the book presents detailed discussions of the current needs of empirical researchers in these fields as well as of opportunities for future development The importance of solid data for both public policy and the social and economic sciences is obvious Today empirical research is essential in finding solutions to many of the major challenges our society faces such as environmental change turbulent financial markets and population growth Based on 68 advisory reports by more than 100 internationally recognised authors from a wide range of fields the book provides recommendations by the German Data Forum RatSWD on how to improve the research infrastructure so as to create conditions ideal for making Germany s social economic and behavioural sciences more innovative and internationally competitive

**Privacy-Preserving Data Mining** Charu C. Aggarwal, Philip S. Yu, 2008-06-10 Advances in hardware technology have increased the capability to store and record personal data about consumers and individuals causing concerns that personal data may be used for a variety of intrusive or malicious purposes Privacy Preserving Data Mining Models and Algorithms proposes a number of techniques to perform the data mining tasks in a privacy preserving way These techniques generally fall into the following categories data modification techniques cryptographic methods and protocols for data sharing statistical techniques for disclosure and inference control query auditing methods randomization and perturbation based techniques This edited volume contains surveys by distinguished researchers in the privacy field Each survey includes the key research content as well as future research directions Privacy

Preserving Data Mining Models and Algorithms is designed for researchers professors and advanced level students in computer science and is also suitable for industry practitioners

*Database Theory - ICDT 2003* Diego Calvanese,Maurizio Lenzerini,Rajeev Motwani,2003-07-01 This book constitutes the refereed proceedings of the 9th International Conference on Database Theory ICDT 2002 held in Siena Italy in January 2002 The 26 revised full papers presented together with 3 invited articles were carefully reviewed and selected from 92 submissions The papers are organized in topical sections on reasoning about XML schemas and queries aggregate queries query evaluation query rewriting and reformulation semistructured versus structured data query containment consistency and incompleteness and data structures

**Healthcare Data Analytics** Chandan K. Reddy,Charu C. Aggarwal,2015-06-23 At the intersection of computer science and healthcare data analytics has emerged as a promising tool for solving problems across many healthcare related disciplines Supplying a comprehensive overview of recent healthcare analytics research Healthcare Data Analytics provides a clear understanding of the analytical techniques currently available

**Business Computing** Gediminas Adomavicius,Alok Gupta,2009-01-29 Focuses on presenting specific innovative computing artifacts and tools developed by researchers that are not commercially used This work presents approaches and frameworks that focus on ability of an enterprise to analyze build and protect computing infrastructure that supports value added dimensions to the enterprise s business processes

Modeling Decisions for Artificial Intelligence Vicenç Torra,2008-10-07 This book constitutes the refereed proceedings of the 5th International Conference on Modeling Decisions for Artificial Intelligence MDAI 2008 held in Sabadell Spain in October 2008 The 19 revised full papers presented together with 2 invited lectures were thoroughly reviewed and selected from 43 submissions they are devoted to theory and tools for modeling decisions as well as applications that encompass decision making processes and information fusion techniques The papers are organized in topical sections on aggregation operators decision making clustering and similarity computational intelligence and optimization as well as data privacy

Handbook of Sharing Confidential Data Jörg Drechsler,Daniel Kifer,Jerome Reiter,Aleksandra Slavković,2024-10-09 Statistical agencies research organizations companies and other data stewards that seek to share data with the public face a challenging dilemma They need to protect the privacy and confidentiality of data subjects and their attributes while providing data products that are useful for their intended purposes In an age when information on data subjects is available from a wide range of data sources as are the computational resources to obtain that information this challenge is increasingly difficult The Handbook of Sharing Confidential Data helps data stewards understand how tools from the data confidentiality literature specifically synthetic data formal privacy and secure computation can be used to manage trade offs in disclosure risk and data usefulness Key features Provides overviews of the potential and the limitations of synthetic data differential privacy and secure computation Offers an accessible review of methods for implementing differential privacy both from methodological and practical perspectives Presents perspectives from both computer science and statistical science for addressing data

confidentiality and privacy Describes genuine applications of synthetic data formal privacy and secure computation to help practitioners implement these approaches The handbook is accessible to both researchers and practitioners who work with confidential data It requires familiarity with basic concepts from probability and data analysis *Data Mining and Knowledge Discovery Handbook* Oded Maimon, Lior Rokach, 2010-09-10 Knowledge Discovery demonstrates intelligent computing at its best and is the most desirable and interesting end product of Information Technology To be able to discover and to extract knowledge from data is a task that many researchers and practitioners are endeavoring to accomplish There is a lot of hidden knowledge waiting to be discovered this is the challenge created by today's abundance of data Data Mining and Knowledge Discovery Handbook Second Edition organizes the most current concepts theories standards methodologies trends challenges and applications of data mining DM and knowledge discovery in databases KDD into a coherent and unified repository This handbook first surveys then provides comprehensive yet concise algorithmic descriptions of methods including classic methods plus the extensions and novel methods developed recently This volume concludes with in depth descriptions of data mining applications in various interdisciplinary industries including finance marketing medicine biology engineering telecommunications software and security Data Mining and Knowledge Discovery Handbook Second Edition is designed for research scientists libraries and advanced level students in computer science and engineering as a reference This handbook is also suitable for professionals in industry for computing applications information systems management and strategic research management **Bayesian Statistics 7** J. M. Bernardo, 2003-07-03 This volume contains the proceedings of the 7th Valencia International Meeting on Bayesian Statistics This conference is held every four years and provides the main forum for researchers in the area of Bayesian statistics to come together to present and discuss frontier developments in the field



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